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1 Virtualizing Transactional Memory

Rayi Rajwar, Maurice Herlihy, Konrad Lai June 2005 ISCA '05: Proceedings of the 32nd annual international symp

Publisher: ACM Full text available: Pdf (199.77 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 119, Downl

Writing concurrent programs is difficult because of the complexity of en Conventional lock-based synchronization suffers from wellknown limitat non-blocking transactions as an alternative. ...

Also published in:

May 2005 SIGARCH Computer Architecture News Volume 33 Issue 2

2 McRT-Malloc: a scalable transactional memory allocator

Richard L. Hudson, Bratin Saha, All-Reza Adl-Tabatabai, Benjamin C. Hertz June 2006 ISMM '06: Proceedings of the 5th international symposium or Publisher: ACM Pequest Permissions

Full text available: Pdf (332.45 KB)

Additional Information; full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13. Downloads (12 Months): 153. Downloads

Emerging multi-core processors promise to provide an exponentially inc every generation. Applications will need to be highly concurrent to fully: enable maximum concurrency, libraries ...

Keywords: memory management, runtimes, synchronization, transacti

3 Analysis of locking behavior in three real database systems

Vigyan Singhal, Alan Jay Smith February 1997 The VLDB Journal — The International Journal on Very

Publisher: Springer-Verlag New York, Inc. Full text available: Pdf (328.18 KB) Additional Information: full citation, abstra-

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 56, Downloa

Concurrency control is essential to the correct functioning of a database results. For this reason, and because concurrency control is a well-form enormous body of literature ...

Keywords: Concurrency control, Trace-driven simulation, Workload cha

4 The OpenTM Transactional Application Programming Interface Woongki Baek, Chi Cao Minh, Martin Trautmann, Christos Kozyrakis, Kunle September 2007 PACT '07: Proceedings of the 16th International Con Compilation Techniques (PACT 2007) - Volume 00 . V

Publisher: IEEE Computer Society Full text available: Pdf (264.87 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks); 1. Downloads (12 Months); 65. Downloa

Transactional Memory (TM) simplifies parallel programming by supporting identified tasks. To date, TM programming has required the use of librar scalable performance with code ...

5 Two models of concurrent objects

O. M. Nierstrasz

April 1989 Proceedings of the 1988 ACM SIGPLAN workshop on Object-ba Publisher: ACM

Full text available: Pdf (256.25 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 40, Downloa

We propose two models of concurrent objects that address, respectively object-oriented programming languages. The first is a conceptual mode languages for concurrent and ...

Also published in:

April 1989 SIGPLAN Notices Volume 24 Issue 4

6 `PRABHA'—a distributed concurrency control algorithm

Albert Burger, Vijay Kumar January 1990 CSC '90: Proceedings of the 1990 ACM annual conference on Publisher: ACM Pequest Permissions

Full text available: Pdf (657.36 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 10, Downloa

We propose a non-preemptive, deadlock free concurrency control mech-The algorithm uses a combination of transaction blocking and roll-back locking mechanisms presented in the ...

7 Non-blocking timeout in scalable queue-based spin locks.

Michael L. Scott PODC '02: Proceedings of the twenty-first annual symposium

Publisher: ACM Pequest Permissions Full text available: Pdf (999.45 KB)

Additional Information: full citation, absira

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Downloa

Queue-based spin locks allow programs with busy-wait synchronization without fear of starvation or performance-destroying contention. Timeou abandon its attempt to acquire ...

Keywords: scalability, spin locks, synchronization, timeout

8 Supporting nested transactional memory in logTM

Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. Hi Wood

November 2006 ASPLOS-XII: Proceedings of the 12th international conference programming languages and operating systems

Publisher: ACM Pequest Permissions
Full text available: Pdf (239,03 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 11. Downloads (12 Months): 105. Downloads

Nested transactional memory (TM) facilitates software composition by It either knowing whether the other uses transactions. Closed nested tratransaction until the toplevel ...

Keywords: logTM, nesting, transactional memory

Also published in:

October 2006 SIGOPS Operating Systems Review Volume 40 Issue 5
October 2006 SIGARCH Computer Architecture News Volume 34 Issue 5
November 2006 SIGPLAN Notices Volume 41 Issue 11

9 Transactions with isolation and cooperation

Yannis Smaragdakis, Anthony Kay, Reimer Behrends, Michal Young October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications

Publisher: ACM Pequest Permissions
Full text available: Ppdf (252.95 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 152, Downloads

We present the TIC (Transactions with Isolation and Cooperation) mode to standard transactional memory the ability for a transaction to observ points. This allows transactions ...

Keywords: TIC, nested transactions, open-nesting, punctuation, transa

Also published in:

October 2007 SIGPLAN Notices Volume 42 Issue 10

10 Approaches to fault-tolerant and transactional mobile agent execution. Stefan Pleisch, André Schiper

September 2004 Computing Surveys (CSUR), Volume 36 Issue 3

Publisher: ACM Pequest Permissions

Full text available: Pdi (946.94 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 37. Downloads (12 Months): 344. Downloads

Over the past years, mobile agent technology has attracted considerable

literature has been published. To further develop mobile agent technolo tolerance and transaction support ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronou tolerance, malicious places, mobile agents, replication, security, transac

11 Split hardware transactions: true nesting of transactions using best-e Yossi Lev, Jan-Willem Maessen

February 2008 PPoPP '08: Proceedings of the 13th ACM SIGPLAN Symposi programming

Publisher: ACM Pequest Permissions

Full text available: Pdf (384.30 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks); 2. Downloads (12 Months); 83. Downloa

Transactional Memory (TM) is on its way to becoming the programming concurrent, and scalable programs. Hardware TM (HTM) implementation than pure software TM (STM); however, ...

Keywords: atomicity, nesting, transactional memory

12 Maximum benefit from a minimal HTM

Owen S. Hofmann, Christopher J. Rossbach, Emmett Witchel

February 2009 ASPLOS '09: Proceeding of the 14th international conference programming languages and operating systems

Publisher: ACM Pequest Permissions Full text available: Pdf (457.43 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 17. Downloads (12 Months): 167. Downloads

A minimal, bounded hardware transactional memory implementation sic performance when used in an operating system kernel. We add HTM to grained synchronization structure. The ...

Keywords: hardware transactional memory

Also published in:

February 2009 SIGPLAN Notices Volume 44 Issue 3

13 Deadlock detection in distributed database systems; a new algorithm analysis

Natalija Krivokapić, Alfons Kemper, Ehud Gudes

October 1999 The VLDB Journal — The International Journal on Very Publisher: Springer-Verlag New York, Inc.

Full text available: Tale (289.96 KB) Additional Information: full citation, abstra-

Bibliometrics: Downloads (6 Weeks): 23. Downloads (12 Months): 134. Downl

This paper attempts a comprehensive study of deadlock detection in dis predominant deadlock models in these systems and the four different di are discussed. Afterwards, a ...

Keywords: Comparative performance analysis, Deadlock detection, Dis study

14 A new approach to developing and implementing eager database rep Bettina Kemme, Gustavo Alonso

September 2000 Transactions on Database Systems (TODS), Volume 25 Publisher: ACM Promissions

Full text available: Pdi (449.43 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 235, Downloads

Database replication is traditionally seen as a way to increase the availa databases. Although a large number of protocols providing data consists proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication replica control, total error multicast

15 Maintaining consistency in a failure-prone P2P database network du

Md Mehedi Masud, Iluju Kiringa
March 2008 DaMAP '08: Proceedings of the 2008 international workshop of systems

Publisher: ACM

Full text available: Pdf (751.39 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Downloa

A peer database network consists of peers in which each peer has its ov (LDBS). In a peer database network, the integration of sources is perforpeer shares its local database information ...

16 Dependence-aware transactional memory for increased concurrency Hany E. Ramadan, Christopher J. Rossbach, Emmett Witchel November 2008 MI (CRO '08: Proceedings of the 2008 41st IEEE/ACM International Concessions).

Publisher: IEEE Computer Society

Full text available: Pct (529.01 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks); 6. Downloads (12 Months); 72. Downloads

Transactional memory (TM) is a promising paradigm for helping prograr core platforms. Though they perform well under low contention, hardwaperforming well under high contention, ...

17 Priority assignment in real-time active databases

Rajendran M. Sivasankaran, John A. Stankovic, Don Towsley, Bhaskar Purl January 1996 The VLDB Journal — The International Journal on Very

Publisher: Springer-Verlag New York, Inc. Full text available: (634.63 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloa

Active databases and real-time databases have been important areas of

recognized that many benefits can be gained by integrating real-time ar However, not much work has been done ...

Keywords: Active databases - Coupling mode - Deadlines - ECA - Prior

18 Tolerating byzantine faults in transaction processing systems using c

Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposis

Publisher: ACM Paguest Permissions Full text available: Pdf (390.75 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13. Downloads (12 Months): 139. Downloads

This paper describes the design, implementation, and evaluation of area faults in transaction processing database systems. The scheme compare multiple replicas which are unmodified, ...

Keywords: byzantine fault tolerance, databases, state machine replica:

Also published in:

October 2007 SIGOPS Operating Systems Review Volume 41 Issue 6

19 Performance modeling of nested transactions in database systems. Hossam S. Hassanein, Mohamed E. El-Sharkawi

November 2000 CASCON '00: Proceedings of the 2000 conference of the C Collaborative research

Publisher: IBM Press

Full text available: Pdf (148.66 KB)

Additional Information; full citation, abstra

Bibliometrics: Downloads (6 Weeks): 14. Downloads (12 Months): 49. Downlo

The nested transaction model was introduced to satisfy the requirement Moreover, it is currently the basic transaction model for new databases and objectrelational databases. ...

Keywords: nested transactions, performance evaluation, simulation, tv

20 User-level transactional programming in Haskell

Peter Thiemann

September 2006 Haskell '06: Proceedings of the 2006 ACM SIGPLAN works

Publisher: ACM Pequest Permissions

Full text available: Pdf (212.38 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 100, Downlo

Correct handling of concurrently accessed external resources is a demai standard approaches rely on database transactions or concurrency med two such resources, global variables and ...

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